

# Virginia Educational Standards

Draft 1.0

	EMR	EMT	AEMT	INTERMEDIATE	PARAMEDIC
	Uses simple knowledge of the	Applies fundamental	Applies fundamental	Under development	Integrates comprehensive
	EMS system, safety/well-being	knowledge of the EMS system,	knowledge of the EMS system,		knowledge of EMS systems,
	of the EMR, medical/legal	safety/well-being of the EMT,	safety/well-being of the		the safety/well-being of the
	issues at the scene of an	medical/legal and ethical	AEMT, medical/legal and		paramedic, and medical/legal
	emergency while awaiting a	issues to the provision of	ethical issues to the provision		and ethical issues which is
	higher level of care.	emergency care.	of emergency care.		intended to improve the health
	riighter level of care.	emergency date.	or officigority sure.		of EMS personnel, patients,
					and the community.
					and the community.
	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	• EMS systems	Simple depth, foundational	Fundamental depth,		Fundamental depth,
	Roles/ responsibilities/	breadth	foundational breadth		foundational breadth
	professionalism of EMS	• EMS systems	Quality improvement		History of EMS
	personnel	History of EMS	Patient safety		Complex depth, comprehensive
	Programme and the second secon		• Patient salety		
MS Systems	Quality improvement	Roles/ responsibilities/			breadth
		professionalism of EMS			• EMS systems
		personnel			Roles/ responsibilities/
		Quality improvement			professionalism of EMS
		Patient safety			personnel
					<ul> <li>Quality improvement</li> </ul>
					Patient safety
	Simple depth, simple breadth	EMR Material PLUS:	Same as Previous Level	Under development	AEMT Material PLUS:
	<ul> <li>Impact of research on EMR</li> </ul>	Simple depth, simple breadth			Fundamental depth,
	care	<ul> <li>Evidence-based decision</li> </ul>			foundational breadth
esearch	Data collection	making			<ul> <li>Research principles to</li> </ul>
					interpret literature and
					advocate evidence-based
					practice
	Simple depth, simple breadth	EMR Material PLUS:	Same as Previous Level	Under development	AEMT Material PLUS:
	<ul> <li>Standard safety precautions</li> </ul>	Fundamental depth,			Complex depth, comprehensive
	Personal protective	foundational breadth			breadth
	equipment	Standard safety precautions			<ul> <li>Provider safety and wellbeing</li> </ul>
	Stress management	Personal protective			Standard safety precautions
	o Dealing with death and	equipment			Personal protective equipment
orkforce Safety	dying	Stress management			Stress management
nd Wellness	Prevention of responserelated	o Dealing with death			o Dealing with death and
iu vveiiriess	· ·	-			The state of the s
	injuries	and dying			dying
	Lifting and moving patients	Prevention of work related			Prevention of work related
		injuries			injuries
					The second secon
		Lifting and moving patients			Lifting and moving patients
					Lifting and moving patients     Disease transmission     Wellness principles

Documentation	Simple depth, simple breadth • Recording patient findings	EMR Material PLUS: Fundamental depth, foundational breadth • Principles of medical documentation and report writing	EMT Material PLUS: Complex depth, foundational breadth Principles of medical documentation and report writing	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Principles of medical documentation and report writing
EMS System Communication	Simple depth, simple breadth Communication needed to  Call for Resources  Transfer care of the patient Interact within the team structure	EMR Material PLUS: Simple depth, simple breadth • EMS communication system • Communication with other health care professionals • Team communication and dynamics	EMT Material PLUS: Fundamental depth, foundational breadth • EMS communication system • Communication with other health care professionals • Team communication and dynamics	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth  • EMS communication system  • Communication with other health care professionals  • Team communication and dynamics
Therapeutic Communication	Simple depth, simple breadth Principles of communicating with patients in a manner that achieves a positive relationship • Interviewing techniques	EMR Material PLUS: Simple depth, simple breadth Principles of communicating with patients in a manner that achieves a positive relationship • Adjusting communication strategies for age, stage of development, patients with special needs, and differing cultures Fundamental depth, foundational breadth • Interviewing techniques • Verbal defusing strategies • Family presence issues	EMT Material PLUS: Simple depth, simple breadth Principles of communicating with patients in a manner that achieves a positive relationship • Dealing with difficult patients	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Principles of communicating with patients in a manner that achieves a positive relationship • Factors that affect communication • Interviewing techniques • Dealing with difficult patients • Adjusting communication strategies for age, stage of development, patients with special needs, and differing cultures
Medical/Legal and Ethics	Simple depth, simple breadth  Consent/refusal of care  Confidentiality  Advanced directives  Tort and criminal actions  Evidence preservation  Statutory responsibilities  Mandatory reporting  Ethical principles/moral obligations  End-of-life issues	EMR Material PLUS: Fundamental depth, foundational breadth Consent/refusal of care Confidentiality Advanced directives Tort and criminal actions Evidence preservation Statutory responsibilities Mandatory reporting Ethical principles/moral obligations	Same as Previous Level	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Consent/refusal of care Confidentiality Advanced directives Tort and criminal actions Statutory responsibilities Mandatory reporting Health care regulation Patient rights/advocacy End-of-life Issues Ethical principles/moral obligations Ethical tests and decision making

Anatomy and Physiology	Uses simple knowledge of the anatomy and function of the upper airway, heart, vessels, blood, lungs, skin, muscles, and bones as the foundation of emergency care.	Applies fundamental knowledge of the anatomy and function of all human systems to the practice of EMS.	Integrates complex knowledge of the anatomy and physiology of the airway, respiratory and circulatory systems to the practice of EMS.	Under development	Integrates a complex depth and comprehensive breadth of knowledge of the anatomy and physiology of all human systems
Medical Terminology	Uses simple medical and anatomical terms.	Uses foundational anatomical and medical terms and abbreviations in written and oral communication with colleagues and other health care professionals.	Same as Previous Level	Under development	Integrates comprehensive anatomical and medical terminology and abbreviations into the written and oral communication with colleagues and other health care professionals.
Pathophysiology	Uses simple knowledge of shock and respiratory compromise to respond to life threats.	Applies fundamental knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.	Applies comprehensive knowledge of the pathophysiology of respiration and perfusion to patient assessment and management.	Under development	Integrates comprehensive knowledge of pathophysiology of major human systems.
Life Span Development	Uses simple knowledge of agerelated differences to assess and care for patients.	Applies fundamental knowledge of life span development to patient assessment and management.	Same as Previous Level	Under development	Integrates comprehensive knowledge of life span development.
Public Health	Have an awareness of local public health resources and the role EMS personnel play in public health emergencies.	Uses simple knowledge of the principles of illness and injury prevention in emergency care.	Uses simple knowledge of the principles of the role of EMS during public health emergencies.	Under development	Applies fundamental knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention.
Pharmacology	Uses simple knowledge of the medications that the EMR may self-administer or administer to a peer in an emergency.	Applies fundamental knowledge of the medications that the EMT may assist/administer to a patient during an emergency.	Applies to patient assessment and management fundamental knowledge of the medications carried by AEMTs that may be administered to a patient during an emergency.	Under development	Integrates comprehensive knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.

Principles of Pharmacology	No knowledge related to this competency is applicable at this level.  Simple depth, simple breadth	Simple depth, simple breadth  Medication safety  Kinds of medications used during an emergency	EMT Material PLUS: Fundamental depth, foundation breadth  • Medication safety  • Medication legislation  • Naming  • Classifications  • Storage and security  • Autonomic pharmacology  • Metabolism and excretion  • Mechanism of action  • Medication response relationships  • Medication interactions  • Toxicity  EMT Material PLUS:	Under development  Under development	AEMT Material PLUS: Complex depth, comprehensive breadth)  • Medication safety • Medication legislation • Naming • Classifications • Schedules • Pharmacokinetics • Storage and security • Autonomic pharmacology • Metabolism and excretion • Mechanism of action • Phases of medication activity • Medication response relationships • Medication interactions • Toxicity  AEMT Material PLUS:
Medication Administration	Within the scope of practice of the EMR, how to  • Self-administer medication  • Peer-administer medication	Fundamental depth, foundational breadth Within the scope of practice of the EMT how to • Assist/administer medications to a patient	Fundamental depth, foundational breadth • Routes of administration • Within the scope of practice of the AEMT, administer medications to a patient	Onder development	Complex depth, comprehensive breadth  Routes of administration  Within the scope of practice of the paramedic, administer medications to a patient
Emergency Medications	Simple depth, simple breadth Within the scope of practice of the EMR • Names • Effects • Indications • Routes of administration • Dosages for the medications administered	EMR Material PLUS: Fundamental depth, simple breadth Within the scope of practice of the EMT  Names Actions Indications Contraindications Complications Routes of administration Side effects Interactions Dosages for the medications administered	EMT Material PLUS: Fundamental depth, foundational breadth Within the scope of practice of the AEMT  Names Actions Indications Contraindications Complications Routes of administration Side effects Interactions Dosages for the medications administered	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Within the scope of practice of the paramedic Names Actions Indications Contraindications Complications Routes of administration Side effects Interactions Dosages for the medications administered

	Applies knowledge	Applies knowledge	Applies knowledge	Under development	Integrates complex knowledge
	(fundamental depth,	(fundamental depth,	(fundamental depth,		of anatomy, physiology, and
	foundational breadth) of	foundational breadth) of	foundational breadth) of		pathophysiology into the
rway	general anatomy and	general anatomy and	additional upper airway		assessment to develop and
anagement,	physiology to assure a patent	physiology to patient	anatomy and physiology to		implement a treatment plan
espiration and	airway, adequate mechanical	assessment and management	patient assessment and		with the goal of assuring a
tificial	ventilation, and respiration	in order to assure a patent	management in order to		patent airway, adequate
entilation	while awaiting additional	airway, adequate mechanical	assure a patent airway,		mechanical ventilation, and
	EMS response for patients of	ventilation, and respiration	adequate mechanical		respiration for patients of all
	all ages.	for patients of all ages.	ventilation, and respiration		ages.
			for patients of all ages.		, and the second
	Fundamental depth, simple	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	breadth	Fundamental depth,	Fundamental depth,		Complex depth, comprehensive
	Within the scope of practice of	foundational breadth	foundational breadth		breadth
	the EMR	Within the scope of practice of	Within the scope of practice of		Within the scope of practice of
rway	Airway anatomy	the EMT	the AEMT		the paramedic
enagement, espiration and difficial entilation	Airway assessment	Airway anatomy	Airway anatomy		Airway anatomy
			Airway assessment		Airway assessment
			Techniques of assuring a		Techniques of assuring a
	,	patent airway	patent airway		patent airway
	Fundamental depth, simple	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	breadth	Fundamental depth,	Complex depth, foundational		Complex depth, comprehensive
	Anatomy of the respiratory	foundational breadth	breadth		breadth
		Anatomy of the respiratory	Anatomy of the respiratory		<ul> <li>Anatomy of the respiratory</li> </ul>
	Physiology and	system	system		system
Fundamental depth, simple breadth Within the scope of practice of the EMR  Airway  Airway  Airway anatomy  Airway assessment  Techniques of assuring a patent airway  Fundamental depth, simple breadth  Fundamental depth, simple breadth  Techniques of assuring a patent airway  Fundamental depth, simple breadth  Anatomy of the respiratory system  Physiology and pathophysiology of respiration  O Oxygenation  O Respiration  Respiration  Fundamental depth, simple breadth  Anatomy of the respiratory system  Physiology and pathophysiology of respiration  O Respiration  Respiration  Fundamental depth, simple breadth  Fundamental depth, comple foundational breadth  Anatomy of the respiratory system  Physiology and pathophysiology of respiration  O Respiration  O Respiration  Respiration  Respiration  Fundamental depth, foundational breadth  Physiology and pathophysiology of respiration  O Pulmonary ventilation  O Respiration  O Respiration  Respiration  Respiration  Respiration  O Respiratio	Fundamental depth,		<ul> <li>Physiology, and</li> </ul>		
	respiration	pathophysiology of	comprehensive breadth		pathophysiology of
	o Pulmonary ventilation	,	Physiology and		respiration
	o Oxygenation	o Pulmonary ventilation	pathophysiology of		o Pulmonary ventilation
			respiration		o Oxygenation
espiration	· · · · · · · · · · · · · · · · · · ·		o Pulmonary ventilation		o Respiration
	□ Internal	· · · · · · · · · · · · · · · · · · ·	o Oxygenation		□ External
	□ Cellular	□ Internal	o Respiration		□ Internal
	Assessment and management	□ Cellular	□ External		□ Cellular
	of adequate and inadequate	Assessment and management			Assessment and management
	respiration	of adequate and inadequate	□ Cellular		of adequate and inadequate
	Supplemental oxygen	respiration	Assessment and management		respiration
	therapy	Supplemental oxygen therapy	of adequate and inadequate		Supplemental oxygen therapy
		Cappionial oxygon alorupy	respiration		Cappionional oxygen therapy
			Supplemental oxygen therapy		

Artificial Ventilation	Fundamental depth, simple breadth Assessment and management of adequate and inadequate ventilation • Artificial ventilation • Minute ventilation • Alveolar ventilation • Effect of artificial ventilation on cardiac output	EMR Material PLUS: Fundamental depth, foundational breadth Assessment and management of adequate and inadequate ventilation • Artificial ventilation • Alveolar ventilation • Effect of artificial ventilation on cardiac output	EMT Material PLUS: Complex depth, foundational breadth Assessment and management of adequate and inadequate ventilation • Artificial ventilation • Minute ventilation • Alveolar ventilation • Effect of artificial ventilation on cardiac output	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Assessment and management of adequate and inadequate ventilation • Artificial ventilation • Minute ventilation • Alveolar ventilation • Effect of artificial ventilation on cardiac output
Assessment	Use scene information and simple patient assessment findings to identify and manage immediate life threats and injuries within the scope of practice of the EMR.	Applies scene information and patient assessment findings (scene size up, primary and secondary assessment, patient history, and reassessment) to guide emergency management.	Same as Previous Level	Under development	Integrate scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. This includes developing a list of differential diagnoses through clinical reasoning to modify the assessment and formulate a treatment plan.
Scene Size-Up	Complex depth, comprehensive breadth  Scene safety Fundamental depth, foundational breadth  Scene management o Impact of the environment on patient care o Addressing hazards o Violence o Need for additional or specialized resources o Standard precautions	EMR Material PLUS: Fundamental depth, foundational breadth • Scene management o Multiple patient situations	Same as Previous Level	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth • Scene management o Impact of the environment on patient care o Addressing hazards o Violence o Multiple patient situations

Primary Assessment	Simple depth, simple breadth  • Primary assessment for all patient situations  o Level of consciousness  o ABCs  o Identifying life threats  o Assessment of vital functions  • Begin interventions needed to preserve life	EMR Material PLUS: Fundamental depth, simple breadth • Primary assessment for all patient situations o Initial general impression o Level of consciousness o ABCs o Identifying life threats o Assessment of vital	EMT Material PLUS: Fundamental depth, foundational breadth • Primary assessment for all patient situations o Initial general impression o Level of consciousness o ABCs o Identifying life threats o Assessment of vital	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth • Primary assessment for all patient situations o Initial general impression o Level of consciousness o ABCs o Identifying life threats o Assessment of vital
	to product to into	functions Integration of treatment/ procedures needed to preserve life	Integration of treatment/ procedures needed to preserve life		functions • Integration of treatment/ procedures needed to preserve life
History Taking	Simple depth, simple breadth  • Determining the chief complaint  • Mechanism of injury/nature of illness  • Associated signs and symptoms	EMR Material PLUS: Fundamental depth, foundational breadth • Investigation of the chief complaint • Mechanism of injury/nature of illness • Past medical history • Associated signs and symptoms • Pertinent negatives	Same as Previous Level	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Components of the patient history Interviewing techniques How to integrate therapeutic communication techniques and adapt the line of inquiry based on findings and presentation
Secondary Assessment	Simple depth, simple breadth  • Performing a rapid full body scan  • Focused assessment of pain  • Assessment of vital signs	EMR Material PLUS: Fundamental depth, foundational breadth Techniques of physical examination • Respiratory system o Presence of breath sounds • Cardiovascular system • Neurological system • Musculoskeletal system • All anatomical regions	EMT Material PLUS: Complex depth, foundational breadth Assessment of Lung sounds	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth Techniques of physical examination for all major • Body systems • Anatomical regions

Monitoring Devices	No knowledge related to this competency is applicable at this level.	Simple depth, simple breadth Within the scope of practice of the EMT  Obtaining and using information from patient monitoring devices including (but not limited to) Pulse oximetry Non-invasive blood pressure	EMT Material PLUS: Within the scope of practice of the AEMT Simple depth, simple breadth Obtaining and using information from patient monitoring devices including (but not limited to) o Blood glucose determination	Under development	AEMT Material PLUS: Fundamental depth, foundational breadth Within the scope of practice of the paramedic • Obtaining and using information from patient monitoring devices including (but not limited to): o Continuous ECG monitoring o 12 lead ECG interpretation o Carbon dioxide monitoring o Basic blood chemistry
Reassessment	Simple depth, simple breadth  • How and when to reassess patients	EMR Material PLUS: Fundamental depth, foundational breadth • how and when to perform a reassessment for all patient situations	Same as Previous Levels	Under development	AEMT Material PLUS: Complex depth, comprehensive breadth • How and when to perform a reassessment for all patient situations

	Recognizes and manages life	Applies fundamental	Applies fundamental	Under development	Integrates assessment findings
	threats based on assessment	knowledge to provide basic	knowledge to provide basic	onder development	with principles of
	findings of a patient with a	emergency care and	and selected advanced		epidemiology and
	medical emergency while	transportation based on	emergency care and		pathophysiology to formulate
Medicine	awaiting additional emergency	assessment findings for an	transportation based on		a field impression and
Wedicine	response.	acutely ill patient.	assessment findings for an		implement a comprehensive
	response.	activity in patient.	acutely ill patient.		treatment/disposition plan for
			actively in patient.		a patient with a medical
					complaint.
	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
				Officer development	
	Assessment and management	Simple depth, foundational	Fundamental depth,		Complex depth, comprehensive
	of	breadth	foundational breadth		breadth
M 11 10 1	a	Pathophysiology, assessment,	Pathophysiology, assessment,		Pathophysiology, assessment,
Medical Overview	Medical complaint	and management of a medical	and management of a medical		and management of medical
		complaints to include	complaints to include		complaints to include
		Transport mode	Transport mode		Transport mode
		Destination decisions	Destination decisions		Destination decisions
	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	Anatomy, presentations, and	Fundamental depth,	Complex depth, foundational		Anatomy, physiology,
	management of	foundational breadth	breadth		epidemiology, pathophysiology,
	Decreased level of	Anatomy, physiology,	Anatomy, physiology,		psychosocial impact,
	responsiveness	pathophysiology, assessment	pathophysiology, assessment		presentations, prognosis, and
	• Seizure	and management of	and management of		management of
	• Stroke	Stroke/ transient ischemic	Seizure		Complex depth, comprehensive
	Choke	attack	GCIZUIC		breadth
		Seizure			Stroke/intracranial
		Status epilepticus			hemorrhage/transient
		Headache			ischemic attack
		ricadactic			Seizure
					Status epilepticus
Neurology					Headache
Neurology					Fundamental depth,
					foundational breadth
					Dementia
					Neoplasms     Demyelingting disorders
					<ul><li>Demyelinating disorders</li><li>Parkinson's disease</li></ul>
					Cranial nerve disorders     Mayor and disorders
					Movement disorders
					Neurologic inflammation/      The street is a second control of the s
					infection
					Spinal cord compression
					Hydrocephalus
					<ul> <li>Wernicke's encephalopathy</li> </ul>

	Simple depth, simple breadth	EMR Material PLUS:	Same as Previous Level	Under development	AEMT Material PLUS:
	Anatomy, presentations and	Fundamental depth,			Anatomy, physiology,
	management of shock	foundational breadth			epidemiology, pathophysiology,
	associated	Anatomy, physiology,			psychosocial impact,
	with abdominal emergencies	pathophysiology, assessment,			presentations, prognosis, and
	Gastrointestinal bleeding	and management of			management of
	3	Acute and chronic			Complex depth, comprehensive
		gastrointestinal hemorrhage			breadth
		Simple depth, simple breadth			Acute and chronic
		Peritonitis			gastrointestinal hemorrhage
		Ulcerative diseases			Liver disorders
		Olderative diseases			Peritonitis
					Ulcerative diseases
Abdominal and					Fundamental depth,
Gastrointestinal					foundational breadth
Disorders					
					Irritable bowel syndrome
					Inflammatory disorders
					Pancreatitis
					Bowel obstruction
					Hernias
					Infectious disorders
					Gall bladder and biliary tract
					disorders
					Simple depth, simple breadth
					Rectal abscess
					<ul> <li>Rectal foreign body</li> </ul>
					obstruction
					Mesenteric ischemia
	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	Recognition and management	Fundamental depth,	Complex depth, comprehensive		Anatomy, physiology,
	of	foundational breadth	breadth		epidemiology, pathophysiology,
	shock and difficulty breathing	Anatomy, physiology,	Anatomy, physiology,		psychosocial impact,
	related to	pathophysiology, assessment,	pathophysiology, assessment,		presentations, prognosis, and
	Anaphylactic reactions	and management of	and management of		management of common or
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		hypersensitivity disorders and/or		major immune system disorders
		emergencies	emergencies		and/or emergencies
		Anaphylactic reactions	Allergic and anaphylactic		Complex depth, comprehensive
Immunology		7 mapriyladilo redellerio	reactions		breadth
			reactions		Hypersensitivity
					Allergic and anaphylactic
					reactions
					Anaphylactoid reactions
					· · ·
					Fundamental depth,
					foundational breadth
					Collagen vascular disease
					<ul> <li>Transplant related problems</li> </ul>

	Simple depth, simple breadth	EMR Material PLUS:	AEMT Material PLUS:	Under development	AEMT Material PLUS:
	Awareness of	Simple depth, simple breadth	Fundamental depth,		Anatomy, physiology,
	<ul> <li>A patient who may have an</li> </ul>	Assessment and management	foundational breadth		epidemiology, pathophysiology,
	infectious disease	of	Assessment and management of		psychosocial impact, reporting
	How to decontaminate	A patient who may have an	A patient who may be		requirements, prognosis, and
	equipment after treating a	infectious disease	infected with a bloodborne		management of
	patient	How to decontaminate the	pathogen		Complex depth, comprehensive
	P C C C C C C C C C C C C C C C C C C C	ambulance and equipment	o HIV		breadth
		after treating a patient	o Hepatitis B		HIV-related disease
		and trouting a patient	Antibiotic resistant infections		Hepatitis
			Current infectious diseases		Pneumonia
			prevalent in the community		Meningococcal meningitis
			prevalent in the community		Fundamental depth,
Infectious Diseases					foundational breadth
					Tuberculosis
					• Tetanus
					Viral diseases
					Sexually transmitted disease
					Gastroenteritis
					Fungal infections
					• Rabies
					Scabies and lice
					Lyme disease
					<ul> <li>Rocky Mountain Spotted</li> </ul>
					Fever
					Antibiotic resistant infections
	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	Awareness that	Fundamental depth,	Complex depth, foundational		Anatomy, physiology,
	Diabetic emergencies cause	foundational breadth	breadth		epidemiology, pathophysiology,
	altered mental status	Anatomy, physiology,	Anatomy, physiology,		psychosocial impact,
		pathophysiology, assessment	pathophysiology, assessment		presentations, prognosis, and
		and management of	and management of		management of
Endocrine		Acute diabetic emergencies	Acute diabetic emergencies		Complex depth, comprehensive
Disorders					breadth
Disorders					Acute diabetic emergencies
					Diabetes
					Fundamental depth,
					foundational breadth
					Adrenal disease
					Pituitary and thyroid
					disorders

	Simple depth, simple breadth	EMR Material PLUS:	Same as Previous Level	Under development	AEMT Material PLUS:
	Recognition of	Simple depth, simple breadth			Anatomy, physiology,
	<ul> <li>Behaviors that pose a risk to</li> </ul>	Basic principles of the mental			epidemiology, pathophysiology,
	the EMR, patient or others	health system			psychosocial impact,
		Fundamental depth,			presentations, prognosis, and
		foundational breadth			management of
		Assessment and management			Complex depth, comprehensive
		of			breadth
		Acute psychosis			Acute psychosis
		Suicidal/risk			Agitated delirium
		Agitated delirium			Fundamental depth,
Psychiatric					foundational breadth
Fsychiatric					Cognitive disorders
					Thought disorders
					Mood disorders
					Neurotic disorders
					Substance-related disorders /
					addictive behavior
					Somatoform disorders
					Factitious disorders
					Personality disorders
					Patterns of violence/
					abuse/neglect
					Organic psychoses

	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	Anatomy, signs, symptoms and	Anatomy, physiology,	Anatomy, physiology,		Anatomy, physiology,
	management	pathophysiology, assessment,	pathophysiology, assessment,		epidemiology, pathophysiology,
	Chest pain	and management of	and management of		psychosocial impact,
	Cardiac arrest	Fundamental depth,	Complex depth, foundational		presentations, prognosis, and
		foundational breadth	breadth		management of
		Acute coronary syndrome	Acute coronary syndrome		Complex depth, comprehensive
		o Angina pectoris	o Angina pectoris		breadth
		o Myocardial infarction	o Myocardial infarction		Acute coronary syndrome
		Aortic aneurysm/dissection	Fundamental depth, simple		o Angina pectoris
		Thromboembolism	breadth		o Myocardial infarction
		Simple depth, simple breadth	Heart failure		Heart failure
		Heart failure	Hypertensive emergencies		Non-traumatic cardiac
		Hypertensive emergencies			tamponade
Cardiovascular					Hypertensive emergencies
Cardiovasculai					Cardiogenic shock
					<ul> <li>Vascular disorders</li> </ul>
					o Abdominal aortic aneurysm
					o Arterial occlusion
					o Venous thrombosis
					<ul> <li>Aortic aneurysm/dissection,</li> </ul>
					Thromboembolism
					<ul> <li>Cardiac rhythm disturbances</li> </ul>
					Fundamental depth,
					foundational breadth
					Infectious diseases of the
					heart
					o Endocarditis
					o Pericarditis
					<ul> <li>Congenital abnormalities</li> </ul>

	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	Recognition and	Fundamental depth,	Fundamental depth,		Complex depth, comprehensive
	management of	foundational breadth	foundational breadth		breadth
	o Carbon monoxide	Anatomy, physiology,	Opiate toxidrome		Anatomy, physiology,
	poisoning	pathophysiology, assessment,			epidemiology, pathophysiology,
	o Nerve agent poisoning	and management of			psychosocial impact,
	How and when to contact a	Inhaled poisons			presentations, prognosis, and
	poison control center	Ingested poisons			management of the following
	poison control center	Injected poisons			toxidromes and poisonings:
		Absorbed poisons			Cholinergics
Tavianlanu		· ·			· · · · · · · · · · · · · · · · · · ·
Toxicology		Alcohol intoxication and			Anticholinergics
		withdrawal			Sympathomimetics
					Sedative/hypnotics
					Opiates
					Alcohol intoxication and
					withdrawal
					Over-the-counter and
					prescription medications
					Carbon monoxide
					Illegal drugs
					<ul> <li>Herbal preparations</li> </ul>
	Simple depth, simple breadth	EMR Material PLUS:	EMT Material PLUS:	Under development	AEMT Material PLUS:
	Anatomy, signs, symptoms and	Anatomy, physiology,	Complex depth, foundational		Anatomy, physiology,
	management of respiratory	pathophysiology, assessment,	breadth		epidemiology, pathophysiology,
	emergencies including those	and management of	Anatomy, physiology,		psychosocial impact,
	that	Fundamental depth,	pathophysiology, assessment,		presentations, prognosis,
	affect the	foundational breadth	and management of		management of
	Upper airway	Epiglottitis	Asthma		Complex depth, comprehensive
	Lower airway	Spontaneous pneumothorax	Obstructive/restrictive		breadth
	201101 411 1149	Pulmonary edema	disease		Acute upper airway infections
		Asthma	Pneumonia		Spontaneous pneumothorax
		Chronic obstructive	Tricumonia		Obstructive/restrictive lung
Respiratory		pulmonary disease			diseases
r toopatory		Environmental/industrial			Pulmonary infections
					Fundamental depth,
		exposure			
		• Toxic gas			foundational breadth
		Simple depth, simple breadth			Neoplasm     Detuggie
		Pertussis     Cyptic fibracia			Pertussis     Custin fibrania
		Cystic fibrosis			Cystic fibrosis
		Pulmonary embolism			
		Pneumonia			
		Viral respiratory infections			

	No knowledge related to this competency is applicable at this level.	Simple depth, simple breadth Anatomy, physiology, pathophysiology, assessment, and management of • Sickle cell crisis	EMT Material PLUS: Fundamental depth, foundational breadth Anatomy, physiology, pathophysiology, assessment	Under development	AEMT Material PLUS: Anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, presentations, prognosis, and
Hematology		Clotting disorders	and management of • Sickle cell crisis		management of common or major hematological diseases and/or emergencies Complex depth, foundational breadth • Sickle cell disease Fundamental depth, foundational breadth • Blood transfusion complications • Hemostatic disorders • Lymphomas • Red blood cell disorders • White blood cell disorders
Genitourinary/Renal	Simple depth, simple breadth  • Blood pressure assessment in hemodialysis patients	EMR Material PLUS: Simple depth, simple breadth Anatomy, physiology, pathophysiology, assessment, and management of • Complications related to o Renal dialysis o Urinary catheter management (not insertion) • Kidney stones	EMT Material PLUS: Fundamental depth, simple breadth Anatomy, physiology, pathophysiology, assessment, and management of • Complications related to renal dialysis • Kidney stones	Under development	Coagulopathies  AEMT Material Plus: Anatomy, physiology, epidemiology, pathophysiology, psychosocial impact, presentations, prognosis, and management of Complex depth, comprehensive breadth Complications of Acute renal failure Chronic renal failure Dialysis Renal calculi Fundamental depth, foundational breadth Acid base disturbances Fluid and electrolyte Infection Male genital tract conditions

	Simple depth, simple breadth	EMR Material Plus:	Same as Previous Level	Under development	AEMT Material Plus:
	Recognition and management	Anatomy, physiology,			Anatomy, physiology,
	of	assessment findings, and			epidemiology, pathophysiology,
	shock associated with	management of			psychosocial impact,
	<ul> <li>Vaginal bleeding</li> </ul>	Fundamental depth,			presentations, prognosis, and
		foundational breadth			management of common or
		Vaginal bleeding			major gynecological diseases
		Sexual assault (to include			and/or emergencies
		appropriate emotional			Complex depth, comprehensive
		support)			breadth
Gynecology		Simple depth, simple breadth			Vaginal bleeding
		Infections			Sexual assault
					Fundamental depth,
					foundational breadth
					Infections
					<ul> <li>Pelvic Inflammatory Disease</li> </ul>
					Ovarian cysts
					Dysfunctional uterine
					bleeding
					<ul> <li>Vaginal foreign body</li> </ul>
	No knowledge related to this	Fundamental depth,	Same as Previous Level	Under development	AEMT Material Plus:
	competency is applicable at	foundational breadth			Fundamental depth, foundation
	this level.	Anatomy, physiology,			breadth
		pathophysiology, assessment			Anatomy, physiology,
		and management of			epidemiology, pathophysiology,
Non-Traumatic		Non-traumatic fractures			psychosocial impact,
Musculoskeletal					presentations, prognosis, and
Disorders					management of common or
Districts					major non-traumatic
					musculoskeletal disorders
					<ul> <li>Disorders of the spine</li> </ul>
					Joint abnormalities
					Muscle abnormalities
					Overuse syndromes
	Simple depth, simple breadth	Same as Previous Level	Same as Previous Level	Under development	AEMT Material Plus:
	Recognition and management				Fundamental depth,
	of				foundational breadth
	Nose bleed				Knowledge of anatomy,
Diseases of the					physiology, epidemiology,
Eyes, Ears, Nose,					pathophysiology, psychosocial
and Throat					impact, presentations,
					prognosis, management of
					Common or major diseases of
					the eyes, ears, nose, and
					throat, including nose bleed

				Under development	
Shock and Resuscitation	Uses assessment information to recognize shock, respiratory failure or arrest, and cardiac arrest based on assessment findings and manages the emergency while awaiting additional emergency response.	Applies fundamental knowledge of the causes, pathophysiology, and management of shock, respiratory failure or arrest, cardiac failure or arrest, and post resuscitation management.	Applies fundamental knowledge to provide basic and selected advanced emergency care and transportation based on assessment findings for a patient in shock, respiratory failure or arrest, cardiac failure or arrest, and post resuscitation management.	Under development	Integrates comprehensive knowledge of causes and pathophysiology into the management of cardiac arrest and peri-arrest states.  Integrates a comprehensive knowledge of the causes and pathophysiology into the management of shock, respiratory failure or arrest with an emphasis on early intervention to prevent arrest.
Trauma	Uses simple knowledge to recognize and manage life threats based on assessment findings for an acutely injured patient while awaiting additional emergency medical response.	Applies fundamental knowledge to provide basic emergency care and transportation based on assessment findings for an acutely injured patient.	Applies fundamental knowledge to provide basic and selected advanced emergency care and transportation based on assessment findings for an acutely injured patient.	Under development	Integrates assessment findings with principles of epidemiology and pathophysiology to formulate a field impression to implement a comprehensive treatment/disposition plan for an acutely injured patient.
Trauma Overview	No knowledge related to this competency is applicable at this level.	Fundamental depth, foundational breadth Pathophysiology, assessment, and management of the trauma patient • Trauma scoring • Rapid transport and destination issues • Transport mode	Same as Previous Level	Under development	AEMT Material Plus: Complex depth, comprehensive breadth Pathophysiology, assessment and management of the trauma patient Trauma scoring Transport and destination issues
Bleeding	Simple depth, simple breadth Recognition and management of • Bleeding	EMR Material Plus: Fundamental depth, foundational breadth Pathophysiology, assessment, and management of • Bleeding	EMT Material Plus: Complex depth, comprehensive breadth • Fluid resuscitation	Under development	AEMT Material Plus: Complex depth, comprehensive breadth Pathophysiology, assessment, and management of • Bleeding

	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	Recognition and management	Fundamental depth, simple	Fundamental depth,		Complex depth, comprehensive
	of	breadth	foundational breadth		breadth
	Blunt versus penetrating	Pathophysiology, assessment	Pathophysiology, assessment		Pathophysiology, assessment,
	mechanisms	and management	and management of		and management of
	Open chest wound	Blunt versus penetrating	Traumatic aortic disruption		Traumatic aortic disruption
	Impaled object	mechanisms	Pulmonary contusion		Pulmonary contusion
		Hemothorax	Blunt cardiac injury		Blunt cardiac injury
		Pneumothorax	Hemothorax		Hemothorax
Chest Trauma		o Open	Pneumothorax		Pneumothorax
Chest Trauma		o Simple	o Open		o Open
		o Tension	o Simple		o Simple
		Cardiac tamponade	o Tension		o Tension
		Rib fractures	Cardiac tamponade		Cardiac tamponade
		Flail chest	Rib fractures		Rib fractures
		Commotio cordis	Flail chest		Flail chest
			Commotio cordis		Commotio cordis
			Traumatic asphyxia		Tracheobronchial disruption
					Diaphragmatic rupture
					Traumatic asphyxia
	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	Recognition and management	Fundamental depth, simple	Fundamental depth,		Complex depth, comprehensive
	of	breadth	foundational breadth		breadth
	<ul> <li>Blunt versus penetrating</li> </ul>	Pathophysiology, assessment	Pathophysiology, assessment,		Pathophysiology, assessment,
	mechanisms	and management of	and management of		and management of
	<ul> <li>Evisceration</li> </ul>	<ul> <li>Solid and hollow organ</li> </ul>	Vascular injury		Vascular injury
	<ul> <li>Impaled object</li> </ul>	injuries	<ul> <li>Solid and hollow organs</li> </ul>		<ul> <li>Solid and hollow organ</li> </ul>
Abdominal and		<ul> <li>Blunt versus penetrating</li> </ul>	injuries		injuries
Genitourinary		mechanisms	Blunt versus penetrating		<ul> <li>Blunt versus penetrating</li> </ul>
Trauma		Evisceration	mechanisms		mechanisms
		<ul> <li>Injuries to the external</li> </ul>	Evisceration		Evisceration
		genitalia	<ul> <li>Retroperitoneal injuries</li> </ul>		<ul> <li>Retroperitoneal injuries</li> </ul>
		<ul> <li>Vaginal bleeding due to</li> </ul>	Injuries to the external		Injuries to the external
		trauma	genitalia		genitalia
		Sexual assault	<ul> <li>Vaginal bleeding due to</li> </ul>		
			trauma		
			Sexual assault		

	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	Recognition and management	Pathophysiology, assessment,	Pathophysiology, assessment,		Pathophysiology, assessment,
	of	and management of	and management of		and management of
	Open fractures	Fundamental depth,	Simple depth, simple breadth		Fundamental depth,
	Closed fractures	foundational breadth	Compartment syndrome		foundational breadth
	Dislocations	Upper and lower extremity	Complex depth, foundational		Pediatric fractures
	Amputations	orthopedic trauma	breadth		Tendon laceration/
		Open fractures	Pelvic fractures		transection/ rupture (Achilles
Orthopedic Trauma		Closed fractures	Amputations/replantation		and patellar)
		Dislocations			Compartment syndrome
		Sprains/strains			Complex depth, foundational
		Pelvic fractures			breadth
		Amputations/replantation			Upper and lower extremity
					orthopedic trauma
					Open fractures
					Closed fractures
					Dislocations
	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	Recognition and management	Fundamental depth,	Fundamental depth, simple		Complex depth, comprehensive
	of	foundational breadth	breadth		breadth
	Wounds	Pathophysiology, assessment,	☐ Crush syndrome		Pathophysiology, assessment,
	Burns	and management			and management of
	o Electrical	Wounds			Wounds
	o Chemical	o Avulsions			o Avulsions
	o Thermal	o Bite wounds			o Bite wounds
	<ul> <li>Chemicals in the eye and on</li> </ul>	o Lacerations			o Lacerations
Soft Tissue Trauma	the skin	o Puncture wounds			o Puncture wounds
		o Incisions			• Burns
		• Burns			o Electrical
		o Electrical			o Chemical
		o Chemical			o Thermal
		o Thermal			High-pressure injection
		o Radiation			Crush syndrome
		Simple depth, simple breadth			
		Crush syndrome			

	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	Recognition and management	Fundamental depth,	Complex depth, foundational	Chack development	Pathophysiology, assessment,
	of	foundational breadth	breadth		and management of
	Life threats	Pathophysiology, assessment,	Pathophysiology, assessment,		Fundamental depth,
	Spine trauma	and management of	and management of		foundational breadth
	Opine tradina	Penetrating neck trauma	Facial fractures		Unstable facial fractures
		Laryngeotracheal injuries	Laryngeotracheal injuries		Orbital fractures
		Spine trauma	- Laryngeotrachear injunes		Perforated tympanic
		Simple depth, simple breadth			membrane
Head, Facial, Neck,		Facial fractures			Complex depth, comprehensive
and Spine trauma		Skull fractures			breadth
					Skull fractures
		Foreign bodies in the eyes     Dental trauma			
		Dental trauma			Penetrating neck trauma
					Laryngeotracheal injuries
					Spine trauma
					o Dislocations/subluxations
					o Fractures
					o Sprains/strains
					Mandibular fractures
	No knowledge related to this	Fundamental depth,	EMT Material Plus:	Under development	AEMT Material Plus:
	competency is applicable at	foundational breadth	Complex depth, foundational		Pathophysiology, assessment,
	this level.	Pathophysiology, assessment,	breadth		and management of
		and management of	Pathophysiology, assessment,		Fundamental depth,
		Traumatic brain injury	and management of		foundational breadth
Nervous System		Spinal cord injury	Traumatic brain injury		Cauda equina syndrome
Trauma					Nerve root injury
Traditia					Peripheral nerve injury
					Complex depth, comprehensive
					breadth
					<ul> <li>Traumatic brain injury</li> </ul>
					Spinal cord injury
					Spinal shock
	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	Recognition and management	Fundamental depth,	Complex depth, foundational		Complex depth, comprehensive
	of	foundational breadth	breadth		breadth
	trauma in	Pathophysiology, assessment,	Pathophysiology, assessment,		Pathophysiology, assessment,
Special	Pregnant patient	and management of trauma in	and management of trauma in		and management of trauma in
Considerations in	Pediatric patient	the	the		the
Trauma	Geriatric patient	Pregnant patient	Pregnant patient		Pregnant patient
		Pediatric patient	Pediatric patient		Pediatric patient
		Geriatric patient	Geriatric patient		Geriatric patient
		<ul> <li>Cognitively impaired patient</li> </ul>	Cognitively impaired patient		<ul> <li>Cognitively impaired patient</li> </ul>

Environ Emerge	The state of the s	t Fundamental depth, foundational breadth Pathophysiology, assessment,	Same as Previous Level	Under development	AEMT Material Plus: Complex depth, comprehensive breadth Pathophysiology, assessment, and management of • Near-drowning • Temperature-related illness • Bites and envenomations • Dysbarism o High-altitude o Diving injuries • Electrical injury • High altitude illness
Multi-Sy Trauma			EMT Material Plus: Complex depth, foundational breadth Pathophysiology, assessment and management of • Multi-system trauma	Under development	AEMT Material Plus: Complex depth, comprehensive breadth Pathophysiology, assessment, and management of • Multi-system trauma • Blast injuries

Special Patient Populations	Recognizes and manages life threats based on simple assessment findings for a patient with special needs while awaiting additional emergency response.	Applies a fundamental knowledge of growth, development, and aging and assessment findings to provide basic emergency care and transportation for a patient with special needs.	Applies a fundamental knowledge of growth, development, and aging and assessment findings to provide basic and selected advanced emergency care and transportation for a patient with special needs.	Under development	Integrates assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression and implement a comprehensive treatment/disposition plan for patients with special needs.
Obstetrics	Simple depth, simple breadth Recognition and management of • Normal delivery • Vaginal bleeding in the pregnant patient	EMR Material Plus: Fundamental depth, foundational breadth  • Anatomy and physiology of normal pregnancy  • Pathophysiology of complications of pregnancy  • Assessment of the pregnant patient  • Management of o Normal delivery o Abnormal delivery   Nuchal cord   Prolapsed cord   Breech delivery o Third trimester bleeding   Placenta previa   Abruptio placenta o Spontaneous abortion/miscarriage o Ectopic pregnancy o Preeclampsia/Eclampsia	Same as Previous Level	Under development	AEMT Material Plus: Complex depth, comprehensive breadth  • Anatomy and physiology of pregnancy  • Pathophysiology of complications of pregnancy  • Assessment of the pregnant patient Psychosocial impact, presentations, prognosis, and management of  • Normal delivery  • Abnormal delivery  o Nuchal cord o Prolapsed cord o Breech  • Spontaneous abortion/miscarriage  • Ectopic pregnancy  • Eclampsia  • Antepartum hemorrhage  • Pregnancy induced hypertension

				Under development	Third trimester bleeding o Placenta previa o Abruptio placenta • High risk pregnancy • Complications of labor o Fetal distress o Pre-term o Premature rupture of membranes o Rupture of uterus • Complication of delivery • Post partum complications Foundational depth, foundational breadth • Hyperemesis gravidarum • Post partum depression
Neonatal care	Simple depth, simple breadth  Newborn care  Neonatal resuscitation	EMR Material Plus: Fundamental depth, foundational breadth Assessment and management • Newborn • Neonatal resuscitation	Same as Previous Level	Under development	AEMT Material Plus: Complex depth, comprehensive breadth

	Simple depth, simple breadth	EMR Material Plus:	Same as Previous Level	Under development	AEMT Material Plus:
	Age-related assessment	Fundamental depth,			Age-related assessment
	findings, and age-related	foundational breadth			findings, age-related anatomic
	assessment and treatment	Age-related assessment			and physiologic variations,
	modifications for	findings, age-related, and			agerelated
	pediatricspecific	developmental stage related			and developmental stage
	major diseases and/or	assessment and treatment			related assessment and treatment
	emergencies	modifications for pediatric			modifications of the
	Upper airway obstruction	specific major diseases and/or			pediatricspecific
	Lower airway reactive	emergencies			major or common
	disease	Upper airway obstruction			diseases and/or emergencies:
	<ul> <li>Respiratory</li> </ul>	Lower airway reactive			Complex depth, comprehensive
	distress/failure/arrest	disease			breadth
	Shock	Respiratory			Foreign body (upper and
	Seizures	distress/failure/arrest			lower) airway obstruction
	Sudden Infant Death	• Shock			Bacterial tracheitis
	Syndrome	Seizures			Asthma
		Sudden Infant Death			Bronchiolitis
		Syndrome			o Respiratory Syncytial Virus
		Gastrointestinal disease			(RSV)
					Pneumonia
Pediatrics					Croup
					Epiglottitis
					Respiratory
					distress/failure/arrest
					Shock
					Seizures
					Sudden Infant Death
					Syndrome (SIDS)
					Hyperglycemia
					Hypoglycemia
				Under development	Fundamental depth,
					foundational breadth
					Pertussis
					47
					EMR EMT AEMT Paramedic
					Cystic fibrosis
					Bronchopulmonary dysplasia
					Congenital heart diseases
					Hydrocephalus and
					ventricular shunts

	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	impact of age-related	Fundamental depth,	Complex depth, foundational		Normal and abnormal changes
	changes on assessment and	foundational breadth	breadth		associated with aging,
	care	Changes associated with aging,	Fluid resuscitation in the		pharmacokinetic changes,
		psychosocial aspects of aging	elderly		psychosocial and economic
		and age-related assessment			aspects of aging, polypharmacy,
		and			and age-related assessment and
		treatment modifications for the			treatment modifications for the
		major or common geriatric			major or common geriatric
		diseases and/or emergencies			diseases and/or emergencies
		Cardiovascular diseases			Complex depth, comprehensive
		Respiratory diseases			breadth
Geriatrics		Neurological diseases			Cardiovascular diseases
		Endocrine diseases			Respiratory diseases
		Alzheimer's			Neurological diseases
		Dementia			Endocrine diseases
					Alzheimer's
					Dementia
					• Delirium
					o Acute confusional state
					Fundamental depth,
					foundational breadth
					Herpes zoster
					Inflammatory arthritis
					illiaminatory aramab
	Simple depth, simple breadth	EMR Material Plus:	EMT Material Plus:	Under development	AEMT Material Plus:
	<ul> <li>Recognizing and reporting</li> </ul>	Simple depth, simple breadth	Fundamental depth,		Complex depth, comprehensive
	abuse and neglect	Healthcare implications of	foundational breadth		breadth
		Abuse	Healthcare implications of		Healthcare implications of
		Neglect	Abuse		Abuse
		Homelessness	Neglect		Neglect
		Poverty	Homelessness		• Poverty
Patients with		Bariatrics	Poverty		Bariatrics
Special Challenges		Technology dependent	Bariatrics		Technology dependent
		Hospice/ terminally ill	Technology dependent		Hospice/ terminally ill
		Tracheostomy	Hospice/ terminally ill		Tracheostomy care/
		care/dysfunction	Tracheostomy		dysfunction
		Homecare	care/dysfunction		
		Sensory deficit/loss	Homecare		
		Developmental disability	Sensory deficit/loss		
			Developmental disability		
	Knowledge of operational	Same as Previous Level	Same as Previous Level	Under development	Same as Previous Level
EMS Operations	roles and responsibilities to				
	ensure safe patient, public,				
	and personnel safety				

Principles of Safely Operating a Ground Ambulance	Simple depth, simple breadth  Risks and responsibilities of emergency response	EMR Material Plus: Simple depth, foundational breadth • Risks and responsibilities of transport	Same as Previous Level	Under development	Same as Previous Level
Incident Management	Simple depth, simple breadth  • Establish and work within the incident management system	EMR Material Plus: Fundamental depth, foundational breadth • Establish and work within the incident management system	Same as Previous Level	Under development	AEMT Material Plus: Complex depth, comprehensive breadth • Establish and work within the incident management system
Multiple Casualty Incidents	Simple depth, simple breadth  Triage principles Resource management	EMR Material Plus: Simple depth, foundational breadth Triage Performing Re-Triage Destination Decisions Post Traumatic and Cumulative Stress	Same as Previous Level	Under development	Same as Previous Level
Air Medical	Simple depth, simple breadth  • Safe air medical operations  • Criteria for utilizing air medical response	Same as Previous Level	Same as Previous Level	Under development	AEMT Material Plus: Complex depth, comprehensive breadth • Medical risks/needs/advantages
Vehicle Extrication	Simple depth, simple breadth  Safe vehicle extrication  Use of simple hand tools	Same as Previous Level	Same as Previous Level	Under development	Same as Previous Level
Hazardous Materials Awareness	Simple depth, simple breadth  Risks and responsibilities of operating in a cold zone at a hazardous material or other special incident	Same as Previous Level	Same as Previous Level	Under development	Same as Previous Level

Mass Casualty	Simple depth, simple breadth	Same as Previous Level	Same as Previous Level	Under development	Same as Previous Level
Incidents due to	<ul> <li>Risks and responsibilities of</li> </ul>				
Terrorism and	operating on the scene of a				
Disaster	natural or man made disaster				
(this section subject					
to ongoing					
collective and					
cooperative review					
and input from all					
stakeholders					
including the					
Department of					
Transportation,					
Department of					
Homeland Security					
and the Department					
of Health and					
Human Services)					
	-				

Clinical Behavior/Judgr	ment				
Assessment	Perform a simple assessment to identify life threats, identify injuries requiring immobilization and conditions requiring treatment within the scope of practice of the EMR: including foreign substance in the eyes and nerve agent poisoning.	Perform a basic history and physical examination to identify acute complaints and monitor changes. Identify the actual and potential complaints of emergency patients.	Perform a basic history and physical examination to identify acute complaints and monitor changes. Identify the actual and potential complaints of emergency patients.	Under development	Perform a comprehensive history and physical examination to identify factors affecting the health and health needs of a patient. Formulate a field impression based on an analysis of comprehensive assessment findings, anatomy, physiology, pathophysiology, and epidemiology. Relate assessment findings to underlying pathological and physiological changes in the patient's condition. Integrate and synthesize the multiple determinants of health and clinical care. Perform health screening and referrals.
Therapeutic communication and cultural competency	Communicates to obtain and clearly transmit information with an awareness of cultural differences.	Communicate in a culturally sensitive manner.	Communicate in a culturally sensitive manner.	Under development	Effectively communicate in a manner that is culturally sensitive and intended to improve the patient outcome.

	Safely and effectively perform	Safely and effectively perform	Safely and effectively perform	Under development	Safely and effectively perform
	all psychomotor skills within the		all psychomotor skills within the		all psychomotor skills within the
	National EMS Scope of Practice	National EMS Scope of Practice	National EMS Scope of Practice		National EMS Scope of Practice
	Model AND state Scope of	Model AND state Scope of	Model AND state Scope of		Model AND state Scope of
	Practice at this level.	Practice at this level.	Practice at this level.		Practice at this level.
	Airway and Breathing	Airway and Breathing	Airway and Breathing		Airway and Breathing
	Basic Airway Maneuvers	<ul> <li>Nasopharyngeal airway</li> </ul>	Airways not intended for		<ul> <li>Oral and nasal endotracheal</li> </ul>
	Head-tilt, chin-lift	Positive pressure ventilation	insertion into the trachea		intubation
	Jaw thrust	Manually-triggered	Esophageal-tracheal		<ul> <li>FBAO – direct laryngoscopy</li> </ul>
	Modified chin lift	ventilators	Multi-lumen airway		Percutaneous cricothyrotomy
	FBAO relief - manual	Automatic transport	Tracheal-bronchial		Pleural decompression
	Oropharyngeal airway	ventilators	suctioning of an already		• BiPAP, CPAP, PEEP
	Sellick's maneuver	Supplemental oxygen	intubated patient		Chest tube monitoring
	<ul> <li>Positive pressure ventilation</li> </ul>	therapy	Assessment		• ETCO2 monitoring
	devices such as BVM	Humidifiers	Blood glucose monitor		NG/OG tube
	Suction of the upper airway	Partial-rebreather mask	Pharmacologic interventions		Assessment
	Supplemental oxygen	Venturi mask	Establish and maintain		ECG interpretation
	therapy	Assessment	peripheral intravenous access		12-lead interpretation
	Nasal cannula	Pulse oximetry	Establish and maintain		Blood chemistry analysis
	Non-rebreather mask	Automatic B/P	intraosseous access in		Pharmacologic interventions
	Assessment	Pharmacologic interventions	pediatric patient		Intraosseous insertion
	Manual B/P	Assist patients in taking their	Administer (nonmedicated)		Enteral and parenteral
	Pharmacologic interventions	own prescribed medications	intravenous fluid therapy		administration of approved
	Unit-dose autoinjectors	Administration of OTC	Sublingual nitroglycerin		prescription medications
sychomotor Skills		medications with medical	0 0,		Access indwelling catheters
	(lifesaving medications intended		(chest pain) • Subcutaneous or		S S S S S S S S S S S S S S S S S S S
		oversight			and implanted central IV ports
	for self or peer rescue in	Oral glucose for	intramuscular epinephrine		Professional Control of the Control
	hazardous materials	hypoglycemia	(anaphylaxis)		Medications by IV infusion
	situation, nerve agent antidote kit)	Aspirin for chest pain	Glucagon (hypoglycemia)		
	Medical/Cardiac care	Medical/Cardiac care	• Intravenous 50% dextrose	Under development	Maintain infusion of blood or
	Manual CPR	Mechanical CPR	(hypoglycemia)		blood products
	• AED	Assisted complicated	Inhaled beta agonists		Blood sampling
	Assisted normal delivery	delivery	(wheezing)		Thrombolytic initiation
	Trauma care	Trauma care	Intravenous narcotic		Administer physician
	Manual stabilization	Spinal immobilization	antagonist (narcotic		approved medications
	C-spine injuries	Cervical collars	overdose)		Medical/Cardiac care
	Extremity fractures	• Seated	Nitrous oxide (pain)		Cardioversion
	Bleeding control	Longboard	Titledd Oxide (pairi)		Manual defibrillation
	Emergency moves	Rapid extrication			Transcutaneous pacing
	Eye irrigation	Splinting			Carotid massage
	- Lye irrigation				Trauma care
		• Extremity			
		• Traction			Morgan lens
		• PASG			
		Mechanical patient restraint			
		Tourniquet			

				Under development	Anticipate and prospectively intervene to improve patient outcome.
Professionalism	Demonstrate professional behavior including: but not limited to, integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communications, timemanagement, teamwork/ diplomacy, respect, patient advocacy, and careful delivery of service	Demonstrate professional behavior including: but not limited to, integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communications, timemanagement, teamwork/ diplomacy, respect, patient advocacy, and careful delivery of service.	Demonstrate professional behavior including: but not limited to, integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communications, timemanagement, teamwork/ diplomacy, respect, patient advocacy, and careful delivery of service.	Under development	Is a role model of exemplary professional behavior including: but not limited to, integrity, empathy, self-motivation, appearance/personal hygiene, self-confidence, communications, timemanagement, teamwork/ diplomacy, respect, patient advocacy, and careful delivery of service.
Decision Making	Initiates simple interventions based on assessment findings	Initiates basic interventions based on assessment findings intended to mitigate the emergency and provide limited symptom relief while providing access to definitive care	Initiates basic and selected advanced interventions based on assessment findings intended to mitigate the emergency and provide limited symptom relief while providing access to definitive care	Under development	Performs basic and advanced interventions as part of a treatment plan intended to mitigate the emergency, provide symptom relief, and improve the overall health of the patient. Evaluates the effectiveness of interventions and modifies treatment plan accordingly.
Record Keeping	Record simple assessment findings and interventions	Report and document assessment data and interventions.	Report and document assessment findings and interventions.	Under development	Report and document assessment findings and interventions. Collect and report data to be used for epidemiological and research purposes.

	Perform a patient assessment	Perform a patient assessment	Perform a patient assessment	Under development	Perform a patient assessment,
	and provide prehospital	and provide prehospital	and provide prehospital		develop a treatment and
	emergency care for patient	emergency care and	emergency care and		disposition plan for patients
	complaints: abdominal pain,	transportation for patient	transportation for patient		with the following complains:
	abuse/neglect, altered mental	complaints: abdominal pain,	complaints: abdominal pain,		abdominal pain, abuse/neglect,
	status/decreased level of	abuse/neglect, altered mental	abuse/neglect, altered mental		altered mental status/decreased
	consciousness, apnea, back	status/decreased level of	status/decreased level of		level of consciousness, anxiety,
	pain,	consciousness, anxiety, apnea,	consciousness, anxiety, apnea,		apnea, ascites, ataxia, back pain,
	behavioral emergency,	ataxia, back pain, behavioral	ataxia, back pain, behavioral		behavioral emergency, bleeding,
	bleeding,	emergency, bleeding, cardiac	emergency, bleeding, cardiac		blood and body fluid exposure,
	cardiac arrest, chest pain,	arrest, cardiac rhythm	arrest, cardiac rhythm		cardiac arrest, cardiac rhythm
	cyanosis, dyspnea, eye pain, GI	disturbances, chest pain,	disturbances, chest pain,		disturbances, chest pain,
	bleeding, hypotension, multiple	constipation, cyanosis,	constipation, cyanosis,		congestion, constipation,
	trauma, pain, paralysis,	dehydration, diarrhea,	dehydration, diarrhea,		cough/hiccough, cyanosis,
	poisoning, shock, and	dizziness/vertigo, dysphasia,	dizziness/vertigo, dysphasia,		dehydration, dental pain,
	stridor/drooling.	dyspnea, edema, eye pain,	dyspnea, edema, eye pain,		diarrhea, dizziness/vertigo,
		fatigue, fever, GI bleeding,	fatigue, fever, GI bleeding,		dysmenorrhea, dysphasia,
		headache, hematuria,	headache, hematuria,		dyspnea, dysuria, ear pain,
Patient Complaints		hemoptysis, hypertension,	hemoptysis, hypertension,		edema, eye pain, fatigue,
r attent complaints			hypotension, joint pain/swelling,		feeding problems, fever, GI
		multiple trauma,	multiple trauma,		bleeding, headache, hearing
		nausea/vomiting, pain,	nausea/vomiting, pain, paralysis,		disturbance, hematuria,
		paralysis,	pediatric crying/fussiness,		hemoptysis, hypertension,
		pediatric crying/fussiness,	poisoning, rash, rectal pain,		hypotension, incontinence,
		poisoning, rash, rectal pain,	shock, sore throat,		jaundice, joint pain/swelling,
		shock, sore throat,	stridor/drooling, syncope,		malaise, multiple trauma,
		stridor/drooling, syncope,	urinary retention, visual		nausea/vomiting, pain, paralysis,
			disturbances, weakness, and		
			wheezing.		

Scene Leadership	Manage the scene until care is transferred to an EMS team member licensed at a higher level arrives.	urinary retention, visual disturbances, weakness, and wheezing.  Entry-level EMTs serve as an EMS team member on an emergency call with more experienced personnel in the lead role. EMTs may serve as a team leader following additional training and/or experience.	Serve as an EMS team leader of an emergency call.	Under development  Under development	poisoning, pruritus, rash, rectal pain, red/pink eye, shock, sore throat, stridor/drooling, syncope, tinnitus, tremor, urinary retention, visual disturbances, weakness, and wheezing. Function as the team leader of a routine, single patient advanced life support emergency call.
Scene Safety	Ensure the safety of the rescuer and others during an emergency.	Ensure the safety of the rescuer and others during an emergency.	Ensure the safety of the rescuer and others during an emergency.	Under development	Ensure the safety of the rescuer and others during an emergency.
Educational Infrastructu	Ire				
Educational Facilities	Facility sponsored or approved by sponsoring agency     ADA compliant facility     Sufficient space for class size     Controlled environment      Provide space sufficient for students to attend classroom	Same as Previous Level  Same as Previous Level	Same as Previous Level  Same as Previous Level	Reference the Virginia EMS Training Program Accreditation at http://www.vdh.virginia.gov/OEMS/Tr aining/Accreditation.htm	Reference     Committee on     Accreditation for     EMS Professions     (CoAEMSP)     Standards and     Guidelines     (www.coaemsp.org)
Student Space	sessions, take notes and participate in classroom activities • Provide space for students to participate in kinematic learning and practice activities				
Instructional Resources	Provide basic instructional support material Provide audio, visual, and kinematic aids to support and supplement didactic instruction	Same as Previous Level	Same as Previous Level		
Instructor Preparation Resources	<ul> <li>Provide space for instructor preparation</li> <li>Provide support equipment for instructor preparation</li> </ul>	Same as Previous Level	Same as Previous Level		

Storage Space	Provide adequate and secure storage space for instructional materials	Same as Previous Level	Same as Previous Level
Sponsorship	Sponsoring organizations shall be one of the following:     Accredited educational institution, or     Public safety organization, or     Accredited hospital, clinic, or medical center, or     Other State approved institution or organization	Same as Previous Level	Same as Previous Level
Programmatic Approval	Sponsoring organization shall have programmatic approval by authority having jurisdiction for program approval (State)	Same as Previous Level	Same as Previous Level
Faculty	The course primary instructor should  • be educated at a level higher than he or she is teaching; however, as a minimum, he or she must be educated at the level he or she is teaching  • Have successfully completed an approved instructor training program or equivalent	Same as Previous Level	Same as Previous Level
Medical Director Oversight	Provide medical oversight for all medical aspects of instruction	Same as Previous Level	Same as Previous Level

	Niama na maina di at tipia lavral	Otroda ata ala solal ala anno	The student moved demonstrate
	None required at this level	Students should observe	☐ The student must demonstrate
		emergency department	the
		operations for a period of	ability to safely administer
		time sufficient to gain an	medications (the student should
		appreciation for the	safely, and while performing all
		continuum of care	steps of each procedure, properly
		Students must perform ten	administer medications at least 15
		patient assessments. These	times to live patient).
		can be performed in an	□ The student must demonstrate
		emergency department,	the
		ambulance, clinic, nursing	ability to safely gain vascular
		home, doctor's office, etc. or	access (the student should safely,
		on standardized patients if	and while performing all steps of
		clinical settings are not	each procedure, successfully
		available.	access the venous circulation at
			least 25 times on live patients of
			various age groups).
			☐ The student should demonstrate
			the
			ability to effectively ventilate
			unintubated patients of all age
			groups (the student should
			effectively, and while performing
			all steps of each procedure,
			ventilate at least 20 live patients of
			various age groups).
Hospital/Clinical			
Experience			
II.			<u> </u>

Field Experience	None required at this level	The student must participate in and document patient contacts in a field experience approved by the medical director and program director.	The student must participate in and document team leadership in a field experience approved by the medical director and program director.
			The student must demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with chest pain.  The student must demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with respiratory distress.  The student must demonstrate the ability to perform an adequate assessment and formulate and implement a treatment plan for patients with altered mental status.  The student must demonstrate the ability to perform an adequate

Course Length	Course length is based on competency, not hours Course material can be delivered in multiple formats including but not limited to: Independent student preparation Synchronous/Asynchronous distributive education Face-to-face instruction Pre- or co-requisites Course length is estimated to take approximately 48-60 didactic and laboratory clock hours	Course length is based on competency, not hours Course material can be delivered in multiple formats including but not limited to: Independent student preparation Synchronous/Asynchronous distributive education Face-to-face instruction Pre- or co-requisites Course length is estimated to take approximately 150-190 clock hours including the four integrated phases of education (didactic, laboratory, clinical and field) to cover material	Course length is based on competency, not hours Course material can be delivered in multiple formats including but not limited to: Independent student preparation Synchronous/Asynchronous distributive education Face-to-face instruction Pre- or co-requisites Course length is estimated to take approximately 150-250 clock hours beyond EMT requirements including the four integrated phases of education (didactic, laboratory, clinical and field) to cover material
Course Design	Provide the following components of instruction:     Didactic instruction     Skills laboratories	Provide the following components of instruction: Didactic instruction Skills laboratories Hospital/Clinical experience Field experience	Same as Previous Level
Student Assessment	Perform knowledge, skill, and professional behavior evaluation based on educational standards and program objectives     Provide several methods of assessing achievement     Provide assessment that measures, as a minimum, entry level competency in all domains	Same as Previous Level	Same as Previous Level
Program Evaluation	Provide evaluation of program instructional effectiveness Provide evaluation of organizational and administrative effectiveness of program	Same as Previous Level	Same as Previous Level